

ABSTRACT OF THE DISCLOSURE

A mechanism for filtering snoop requests to a cache memory includes, in one embodiment, a first storage that may store a first set of corresponding snoop filter indications. The mechanism also includes a second storage that may store a second set of corresponding snoop filter indications. Further, the mechanism includes a cache controller configured to receive a transaction request including an address. The cache controller generates a first index value for accessing the first storage by performing a first hash function on the address. In addition, the cache controller generates a second index value for accessing the second storage by performing a second hash function on the address. The cache controller may further selectively generate a snoop operation to the cache memory for the transaction request dependent upon a corresponding snoop filter indication stored in each of the first storage and the second storage that corresponds to the address.

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